

ABSTRACT

A force-control method for a dual coil electric beating device is disclosed. The device has a single chip; an elastomer connected to an impact rod; and two coils for driving the impact rod as at least one of two
5 coils are induced. The method comprises the steps of: programming the single chip to control conduction time periods of the two coils; actuating at least one of the two coils to deform the elastomer according to the programming in the single chip; de-actuating the actuating coils so as to restore the elastomer to displace the impact rod. The movement of the
10 impact rod is controlled by the conduction time periods of the two coils which are determined by the programming in the single chip.